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the adenovirus type 36p thus testing whether the person has been or is infected with adenovirus type 36p, which causes obesity and reduces cholesterol level in humans.

2 3. The method according to Claim *1* wherein the substance analyzed is blood.

D2 5. (Twice Amended) A method for the detection of virally caused obesity in an obese subject comprising the steps of
isolating a nucleic acid from the body of the subject;
providing a DNA probe specific to adenovirus type 36p;
testing the isolated nucleic with the DNA probe for the presence of nucleic acid sequences from adenovirus type 36p in the nucleic acid from the subject; and
detecting the presence of said sequences wherein the detection indicates the presence of viral induced obesity in the subject.

3 6. (Twice Amended) A method for the detection of virally caused obesity in an obese subject comprising the steps of
isolating a sample of biological tissue or fluid from the subject;
providing an antibody specific to adenovirus type 36p;
testing the sample, using [an immunological probe] the antibody diagnostic for adenovirus type 36p; and
detecting the presence of adenovirus type 36p to determine if the subject has viral induced obesity.

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